Application No. 10/525,255

Nachiket Kharalkar Filed: February 23, 2005

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CLAIMS

Claims 1 through 4, 7 and 8, 13, 16 through 22 are cancelled.

- 5. (Withdrawn) The method of claim 4, wherein said monitoring comprises monitoring a change in temperature in the patient's arm.
- 6. (Withdrawn) The method of claim 5, wherein monitoring the change in temperature in the patient's arm is accomplished by placing at least two temperature sensors proximate the patient's forearm.
- 9. (Withdrawn) The method claim 1, wherein providing a vasodilating stimulant comprises occluding blood flow in the patient's leg.
- 10. (Withdrawn) A method for measuring endothelial function comprising:
 - a. providing a vasodilating stimulant to a patient to stimulate hemodynamic activity in a selected region of the patient's body;
 - b. monitoring a change in blood oxygen content at the selected region; and
 - c. assessing the patient's endothelial function based upon said monitoring.
- 11. (Withdrawn) The method of claim 10, wherein said monitoring is accomplished by taking measurements with a pulse oximeter.
- 12 (Withdrawn) The method of claim 11, wherein said pulse oximeter is placed proximate the tip of one of the patient's fingers.
- 14. (Withdrawn) The method of claim 13, wherein said monitoring is accomplished by taking measurements with a photoplethysmograph placed proximate one of the patient's fingers.
- 15. (Withdrawn) The method of claim 13, wherein said monitoring is accomplished by taking an ultrasound Doppler measurement.
- 23. (New) A method for assessing endothelial function, comprising:
 - a) recording a patient's temperature at location distal to a selected site of creating an arterial occlusion;
 - b) compressing for a given period of time the patient's artery to impede distal blood flow and thereby creating a vasodilating stimulant;
 - c) removing the compression and thereby allowing blood flow to resume;

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- d) continuously recording the patient's temperature distal to the site of arterial occlusion; and
- e) assessing the patient's endothelial function based on said recorded changes in temperature.
- 24. (New) The method of claim 23, wherein providing a vasodilating stimulant comprises occluding blood flow.
- 25. (New) The method of claim 23, wherein the patient's artery is the brachial artery.
- 26. (New) The method of claim 23, wherein said temperature recording further comprises monitoring a change in temperature at one of the patient's fingertips distal to the arterial occlusion.
- 27. (New) The method of claim 25, wherein the vasodilating stimulant comprises occluding blood flow in the patient's arm.
- 28. (New) The method of claim 23, wherein the compression of the patient's artery is located in an extremity of at least one of (i) a leg, (ii) an arm, (iii) a wrist, or (iv) a finger.
- 29. (New) The method of claim 23, wherein said monitoring occurs from a time prior to the beginning of said compression until a pre-determined time after said ceasing.